

Applicant: Milton B. Maxwell, Jr.  
Serial No.: 10/686,900  
Filed: October 16, 2003  
Group Art Unit: 3626  
Attorney's Docket No.: N9461  
Customer No.: 23456

### **COMPLETE LISTING OF CLAIMS**

1. (Currently amended) A medical information processing method, comprising:

(a) gathering medication specific data for the medication of a patient from a plurality of independent sources;

(b) compiling said data into a data processing system;

(c) identifying at least one disease the patient may have based on the medication specific data;

(d) generating one or more disease/drug contra-indications based upon relationships between the at least one disease and the medication specific data;

(~~e~~) (e) identifying at least one item of consequential information from the following group: a side effect of the medication, a drug-drug interaction of the medication, and a therapeutic class of the medication;

(~~f~~) (f) inserting said at least one item into the data processing system;

(~~e~~) (g) enabling a third-party user to access said information and item from a location remote from the location of said data processing system; and

(~~f~~) (h) facilitating the display of said item to the user.

2. (Currently amended) The method of claim 1, wherein step (~~f~~) (h) includes the step of facilitating the display of the side effect of the medication which is severe and probable, and the therapeutic class of the medication to the user.

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3. (Currently amended) The method of claim [[2]] 1, wherein:

~~step (e) includes identifying a disease contra indication of the medication;~~  
and

step (f) (h) includes facilitating the display of the ~~disease contra indication of~~  
~~the medication~~ one or more disease/drug contra-indications to the user.

4. (Currently amended) The method of claim 1, wherein step (e) (g) further comprises:

assigning the user an identification code;

assigning the user a pass code; and

upon entry of an identification code and pass code, comparing the entered identification code and the pass code to the assigned identification code and the assigned pass code to authorize access to the information and item.

5. (Original) The method of claim 1, wherein, in step (a) the medication specific data further comprises at least one of the items of data selected from the following group:

a name of the medication;

an administration dose of the medication;

a name of a health care provider that prescribed the medication;

an original date of a prescription for the medication;

a date of exhaustion of the prescription for the medication;

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a set of instructions for administering the medication; and  
compliance information for the medication.

6. (Currently amended) The method of claim 1, wherein:

in step (a) the medication specific data includes information indicative of patient usage of prescribed medications; and

in step (e) (e) the consequential information includes information regarding the indicated patient usage of prescribed medications.

7. (Currently amended) The method of claim 1, wherein:

step ~~(e)~~ (g) includes enabling a selected class of users to access less than all of the consequential information.

8. (Currently amended) A method of profiling the medication history of a patient, comprising:

collecting the patient's medication information from medication distribution information of a plurality of health care providers;

integrating said information into a data system that is accessible on-line;

comparing the patient's medication information to a drug-drug interaction database ~~in order~~ to identify severe, ~~and~~ moderate, and mild drug-drug interactions;

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comparing the patient's medication information to a disease/drug contra indication database ~~in order~~ to identify severe and moderate disease/drug contra indications;

compiling in the data system the identified severe and moderate drug-drug interactions, wherein the identified mild drug-drug interactions are suppressed, and category of severity of the identified severe and moderate drug-drug interactions and the identified disease/drug contra indications and category of severity of the identified disease/drug contra indications; and

facilitating access to information in said data system by a user through an on-line connection.

9. (Original) The method of claim 8, further comprising the step of facilitating the display of the patient's medication information to a user accessing the data system by providing a patient identification number and a patient pass code.

10. (Original) The method of claim 8, wherein the patient's medication information further comprises at least one item of information taken from the following group:

- a name of a medication;
- an administration dose of the medication;
- a name of a health care provider that prescribed the medication;
- an original date of a prescription for the medication;
- a date of exhaustion of the prescription for the medication;

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a set of instructions for administering the medication; and  
compliance information for the medication.

11. (Currently amended) The method of claim 8, further comprising the step of facilitating display of severe and moderate drug-drug interactions and severe and moderate disease/drug contra indications to a user entering a health care provider identification number and pass code.

12. (Original) The method of claim 8, further comprising:  
determining indicated patient usage of the medications.

13. (Currently amended) The method of claim 8, further comprising:  
enabling a health care provider to submit a proposed new medications; and  
comparing the proposed new medications to both the databases to identify further drug-drug interactions and disease/drug contra indications.

14. (Original) The method of claim 8, wherein:  
a selected class of users is facilitated access to less than all of said information.

15. (Currently amended) A method of generating a medical profile for a patient, comprising:

(a) storing in a data processing system patient medication information including medication distribution information obtained from a health care provider;

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(b) comparing the patient medication information to a database to identify profile information, wherein the profile information excludes mild drug-drug interactions;

(c) facilitating the display of the patient medication information and profile information to a user; and

(d) controlling the display of said patient medication information and profile information by providing an identification code and pass code to the user that must be entered for the user to gain access to the information.

16. (Original) The method of claim 15, wherein step (a) further comprises entering into the data processing system patient medication information including medication distribution information obtained from a plurality of health care providers.

17. (Original) The method of claim 16, wherein in step (b) the profile information includes a severe side effect of the medication, a severe drug-drug interaction of the medication, and a therapeutic class of the medication.

18. (Currently amended) A method of providing medication information, comprising:

(a) entering into a data processing system patient medication information originating from a health care provider previously distributing medication to a patient; ~~and~~

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(b) accessing a database containing medication specific characteristics including medication side effects;

(c) comparing the patient medication information and the medication specific characteristics;

(d) generating profile information, wherein the profile information excludes the medication side effects that are mild; and

~~(b)~~ (e) facilitating the display of the patient medication information and profile information to a user other than the patient wherein the patient possesses information to access the data processing system in order to display the patient medication information and the patient provides the information to access the data processing system to the user so that the user accesses the data processing system in order to display the patient medication information.

19. (Original) The method of claim 18, wherein step (a) further comprises entering into the data processing system patient medication information from a plurality of health care providers previously distributing medication to the patient.

20. (Canceled)

21. (Currently amended) The method of claim ~~20~~ 19, wherein the profile information includes at least one of the medication side effects that is severe ~~a severe side effect of the medication~~, a severe drug-drug interaction of the medication, and a therapeutic class of the medication.

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22. (Original) The method of claim 18, wherein in step (a) patient medication information further comprises:

- a name of a medication in use by the patient;
- an administration dose of the medication;
- a name of a health care provider that prescribed the medication;
- an original date of a prescription for the medication;
- a date of exhaustion of the prescription for the medication;
- a set of instructions for administering the medication; and
- compliance information for the medication.

23. (Currently amended) A medical information database, comprising:

- a patient profile database including for each of a plurality of patients a patient profile, including:

- medication specific data on a plurality of medications which have been prescribed for the patient; ~~and~~

- consequential information including identification of any drug-drug interactions of the prescribed medications, wherein the any identified drug-drug interactions having a severity classification of less than moderate are suppressed; and

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a secured access to the patient profile database, requiring entry of patient, identification information and user password information in order for a user to gain access to the identified patient's profile.

24. (Original) The database of claim 23 wherein the consequential information further includes side effects of the medications.

25. (Original) The database of claim 23, wherein the consequential information further includes identification of multiple medications in a therapeutic class as a possible indication of duplicative medication.

26. (Original) The database of claim 23, wherein the consequential information further includes identification of disease drug contra indications.

27. (Original) The database of claim 23, wherein:

the medication specific data includes information indicative of actual patient usage of the prescribed medications; and

the consequential information includes information regarding the indicated actual patient usage of prescribed medications.

28. (Original) The database of claim 23, wherein the secured access permits a selected class of users to access less than all of the consequential information in the patient profile.

29. (New) The method of claim 8 further comprising:

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comparing the patient's medication information to a drug side effect database to identify severe, moderate, and mild drug side effects; and

compiling in the data system only the severe and moderate drug side effects.

30. (New) The method of claim 15, further comprising:

analyzing the patient medication information to extract at least one disease treated by medications described in the patient medication information; and

identifying disease/drug contra-indications according to the patient medication information and the at least one disease.

31. (New) The method of 23, wherein the consequential information further includes any disease/drug contra-indications as identified by comparing at least one disease, treated by one or more of the plurality of medications, to each of the plurality of medications.

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